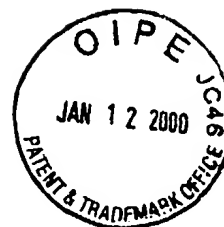


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Sub E1 } 37. (Amended) A chimeric protein comprising a leukotoxin polypeptide that activates helper T-cells, coupled to a selected peptide hormone which is not a cytokine, wherein said leukotoxin polypeptide is an RTX leukotoxin from a bacterium selected from the group consisting of *Pasteurella haemolytica*, *E. coli* and *Actinobacillus pleuropneumoniae*.

2 40. The chimeric protein of claim ~~37~~¹, wherein said leukotoxin polypeptide is coupled to gonadotropin releasing hormone (GnRH), or an epitope thereof.

3 41. The chimeric protein of claim ~~40~~², comprising the amino acid sequence of SEQ ID NO:12.

4 42. The chimeric protein of claim ~~37~~¹, wherein the leukotoxin polypeptide is a *Pasteurella haemolytica* leukotoxin polypeptide.

5 43. The chimeric protein of claim ~~40~~², wherein the leukotoxin polypeptide is a *Pasteurella haemolytica* leukotoxin polypeptide.